

AMENDMENT TO THE CLAIMS

1.(Currently Amended) A vibration damping device comprising a laminated plate (20) in which at least an interior part thereof is fastened to a base material (11) that emits noise, ~~characterized in that~~ wherein the interior part is a part (G) other than a part that forms a loop of a vibration mode when the base material (11) is caused to vibrate in a vibration mode at a specified frequency.

2.(Currently Amended) A vibration damping device comprising a laminated plate (20) in which at least an interior part thereof is fastened to a base material (11) that emits noise, ~~characterized in that~~ wherein the interior part is a part (G) other than a part that forms a loop with respect to a plurality of vibration modes when the base material is caused to vibrate in respective vibration modes at a plurality of frequencies.

3.(Currently Amended) A vibration damping device comprising a laminated plate (20) in which at least an interior part thereof is fastened to a side plate (11) of a bucket (10) of a construction machine, ~~characterized in that~~ wherein the interior part is within a region G comprising i) a part D consisting of a center point d of a line segment BC that connects a point B where a line segment CA that connects a circular arc center C of the side plate (11) which has a substantially circular arc shape in at least a portion of one side and a point A where there is a transition from the substantially circular arc shape to another shape on a side of attachment of the bucket (10) to the construction machine intersects with the

laminated plate (20), and the circular arc center C, and an area in the vicinity of the center point d, ii) a part F consisting of a center point f of the line segment CA and an area in the vicinity of the center point f, and iii) a region between the part D and the part F.

4.(Currently Amended) A bucket for a construction machine comprising:

a side plate (11);

a bottom plate (12), at least a portion of which is connected to the side plate (11); and

a laminated plate (20) which is attached to the side plate (11);

~~characterized in that in~~ wherein in cases where a ratio W_p/H_s of a width W_p of the bottom plate (12) to a height H_s of the side plate (11) is 1.47 or greater, at least a part (16) of the portion where the side plate (11) and the bottom plate (12) are connected is reinforced.

5.(Currently Amended) A bucket for a construction machine comprising:

a side plate (11);

a bottom plate (12), at least a portion of which is connected to the side plate (11); and

a laminated plate (20) which is attached to the side plate (11);

~~characterized in that in~~ wherein in cases where a ratio W_p/H_s of a width W_p of the bottom plate (12) to a height H_s of the side plate (11) is 1.47 or greater, a part (K), which forms a loop of a vibration mode, of the portion where the side plate (11) and the

bottom plate (12) are connected is reinforced

6.(Currently Amended) A bucket for a construction machine comprising:

a side plate (11);

a bottom plate (12), at least a portion of which is connected to the side plate (11); and

a laminated plate (20) which is attached to the side plate (11);

~~characterized in that in~~ wherein in cases where a ratio W_p/H_s of a width W_p of the bottom plate (12) to a height H_s of the side plate (11) is 1.47 or greater, a connecting member (15) that connects the side plate (11) and the bottom plate (12) is provided so that a ratio W_p'/H_s of a substantial width W_p' of the bottom plate (12) to the height H_s is less than 1.47.

7.(Currently Amended) A bucket for a construction machine comprising:

a side plate (11);

a bottom plate (12), at least a portion of which is connected to the side plate (11); and

a laminated plate (20) which is attached to an outside of the side plate (11);

~~characterized in that~~ wherein at least a part (16) of the portion where the side plate (11) and the bottom plate (12) are connected on insides of the side plate (11) and the bottom plate (12) is reinforced.

8.(Currently Amended) The vibration damping device according to claim 1 ~~or claim 2~~, characterized in that wherein the base material (11) constitutes a side plate (211) of a bucket (200) of a construction machine, and the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and in cases where a ratio W_p/H_s of a width W_p of the bottom plate (212) to a height of the side plate (211) is 1.47 or greater, at least a part (K) of the portion where the side plate (211) and the bottom plate (212) are connected is reinforced.

9.(Currently Amended) The vibration damping device according to claim 3, characterized in that wherein the device comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and in cases where a ratio W_p/H_s of a width W_p of the bottom plate (212) to a height of the side plate (211) is 1.47 or greater, at least a part (K) of the portion where the side plates (211) and the bottom plate (212) are connected is reinforced.

10.(Currently Amended) The vibration damping device according to claim 1 ~~or claim 2~~, characterized in that wherein the base material (11) constitutes a side plate (211) of a bucket (200) of a construction machine, and the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and in cases where a ratio W_p/H_s of a width W_p of the bottom plate (212) to a height of the side plate (211) is 1.47 or greater, a part (K), which forms a loop of the vibration mode, of the portion where the side plate (211) and the bottom plate (212) are connected is reinforced.

11.(Currently Amended) The vibration damping device according to claim 3, ~~characterized in that~~ wherein the device comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and in cases where a ratio W_p/H_s of a width W_p of the bottom plate (212) to a height of the side plate (211) is 1.47 or greater, a part (K), which forms a loop of the vibration mode, of the portion where the side plate (211) and the bottom plate (212) are connected is reinforced.

12.(Currently Amended) The vibration damping device according to claim 1 ~~or claim 2~~, ~~characterized in that~~ wherein the base material (11) constitutes a side plates (211) of a bucket (200) of a construction machine, and the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and a connecting member (215) that connects the side plate (211) and the bottom plate (212) so that a ratio W_p'/H_s of a substantial width W_p' of the bottom plate (212) to a height H_s of the side plate (211) is less than 1.47 in cases where a ratio W_p/H_s of a width W_p of the bottom plate (212) to the height H_s is 1.47 or greater.

13.(Currently Amended) The vibration damping device according to claim 3, ~~characterized in that~~ wherein the device comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and a connecting member (215) which connects the side plate (211) and the bottom plate (212) so that a ratio W_p'/H_s of a substantial width W_p' of the bottom plate (212) to a height H_s of the side plate (211) is less

than 1.47 in cases where a ratio W_p/H_s of a width W_p of the bottom plate (212) to the height H_s is 1.47 or greater.

14.(Currently Amended) The vibration damping device according to claim 1 ~~or claim 2~~, ~~characterized in that~~ wherein the base material (11) constitutes a side plates (211) of a bucket (200) of a construction machine, the laminated plate (220) is attached to an outside of the side plate (211), the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and at least a part (K) of the portion where the side plate (211) and the bottom plate (212) are connected on insides of the side plate (211) and the bottom plate (212) is reinforced.

15.(Currently Amended) The vibration damping device according to claim 3, ~~characterized in that~~ wherein the laminated plate (220) is attached to an outside of the side plate (211), the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and at least a part (K) of the portion where the side plate (211) and the bottom plate (212) are connected on insides of the side plate (211) and the bottom plate (212) is reinforced.

16.(Currently Amended) A vibration damping device comprising a laminated plate (910) formed by laminating a specified number of inner plates (912) and an outer plate (911) that is disposed on an outside of the specified number of the inner plates (912), ~~characterized in that~~ wherein the specified number of inner plates (912) are tightly sealed by the outer

plate (911) and a machine (901) that is an object of vibration damping.

17.(Currently Amended) The vibration damping device according to claim 1 ~~or claim 2,~~
~~characterized in that~~ wherein the laminated plate (910) is formed by laminating a specified
number of inner plates (912) and an outer plate (911) that is disposed on an outside of the
specified number of the inner plates (912), and the specified number of the inner plates
(912) are tightly sealed by the outer plate (911) and a machine (901) that is an object of
vibration damping.

18.(Currently Amended) The vibration damping device according to claim 17,
~~characterized in that~~ wherein the machine (901) that is the object of vibration damping
constitutes the side plate (211) of a bucket (300) of a construction machine, the laminated
plate (910) is attached to the outside of the side plate (211), the device further comprises a
bottom plate (212), at least a portion of which is connected to the side plate (211), and at
least a part (K) of the portion where the side plate (211) and the bottom plate (212) are
connected on insides of the side plate (211) and the bottom plate (212) is reinforced.

19.(Currently Amended) The vibration damping device according to claim 3,
~~characterized in that~~ wherein the laminated plate (910) is formed by laminating a specified
number of inner plates (912) and an outer plate (911) that is disposed on an outside of the
specified number of inner plates (912), and the specified number of the inner plates (912)
are tightly sealed by the outer plate (911) and the side plate (211).

20.(Currently Amended) The vibration damping device according to claim 19, ~~characterized in that~~ wherein the laminated plate (910) is attached to an outside of the side plate (211), the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and at least a part (K) of the portion where the side plate (211) and the bottom plate (212) are connected on insides of the side plate (211) and the bottom plate (212) is reinforced.

21.(Currently Amended) The bucket for a construction machine according to claim 7, ~~characterized in that~~ wherein the laminated plate (910) is formed by laminating a specified number of inner plates (912) and an outer plate (911) that is disposed on an outside of the specified number of the inner plates (912), and the specified number of the inner plates (912) are tightly sealed by the outer plate (911) and the side plate (211).

22.(Currently Amended) The vibration damping device according to claim 16, ~~characterized in that~~ wherein the laminated plate (110, 130) is formed by laminating a specified number of inner plates (111, 131), and an outer plate (112, 132) which is disposed on the outside of the specified number of inner plates (111, 131) and which has a shape that differs from those of the inner plates (111, 131), the inner plates (111, 131) are caused to contact with members (103, 128) of the machine that is the object of vibration damping, and the laminated plate (110, 130) is coupled to the members (103, 128) of the

machine by performing continuous welding on peripheral edges of the outer plate (112, 132).

23.(Currently Amended) The vibration damping device according to claim 16, ~~characterized in that~~ wherein intermittent welding consisting of welding in a plurality of locations is further performed on peripheral edges of the inner plates (111, 131) when the laminated plate (110, 130) is coupled to members (103, 128) of the machine.

24.(Currently Amended) The vibration damping device according to claim 16 ~~or claim 23~~, ~~characterized in that~~ wherein the member (103) of the machine has a contact member (108) that is capable of contacting end portions of the laminated plate (110), the inner plate (111) has a contact part (111b) that protrudes from a peripheral edge of the outer plate (112) and contacts with the contact member (108), and continuous welding that covers the contact part (111b) of the inner plate (111) is performed between the peripheral edge of the outer plate (112) and the contact member (108).

25.(Currently Amended) The vibration damping device according to claim 16 ~~or claim 23~~, ~~characterized in that~~ wherein a plurality of protruding parts (131a) that match a peripheral edge shape of the outer plate (132) are disposed on the peripheral edge of the inner plate (131), and the plurality of protruding parts (131a) of the inner plate (131) are intermittently welded by performing continuous welding on the peripheral edge of the outer plate (132).

26.(Currently Amended) The vibration damping device according to claim 24, ~~characterized in that~~ wherein a length of the contact part (111b) of the inner plate (111) is 100 to 280 mm.

27.(Currently Amended) The vibration damping device according to claim 25, ~~characterized in that~~ wherein the plurality of protruding parts (131a) of the inner plate (131) are disposed at intervals of 100 to 280 mm.

28.(Currently Amended) A vibration damping device comprising:

a laminated plate (910) which is formed by laminating a specified number of inner plates (912), and an outer plate (911) which is disposed on an outside of the specified number of the inner plates (912), and which has a shape that differs from those of the specified number of the inner plates (912); and

members (914, 918) which connect the outer plate (911) and a machine (901) that is an object of vibration damping;

~~characterized in that~~ wherein the outer plate (911) and the machine (901) that is the object of vibration damping are coupled via the connecting members (914, 918).

29.(New) The vibration damping device according to claim 2, wherein the base material (11) constitutes a side plate (211) of a bucket (200) of a construction machine, and the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and in cases where a ratio W_p/H_s of a width W_p of the

bottom plate (212) to a height of the side plate (211) is 1.47 or greater, at least a part (K) of the portion where the side plate (211) and the bottom plate (212) are connected is reinforced.

30.(New) The vibration damping device according to claim 2, wherein the base material (11) constitutes a side plate (211) of a bucket (200) of a construction machine, and the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and in cases where a ratio W_p/H_s of a width W_p of the bottom plate (212) to a height of the side plate (211) is 1.47 or greater, a part (K), which forms a loop of the vibration mode, of the portion where the side plate (211) and the bottom plate (212) are connected is reinforced.

31.(New) The vibration damping device according to claim 2, wherein the base material (11) constitutes a side plates (211) of a bucket (200) of a construction machine, and the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and a connecting member (215) that connects the side plate (211) and the bottom plate (212) so that a ratio W_p'/H_s of a substantial width W_p' of the bottom plate (212) to a height H_s of the side plate (211) is less than 1.47 in cases where a ratio W_p/H_s of a width W_p of the bottom plate (212) to the height H_s is 1.47 or greater.

32.(New) The vibration damping device according to claim 2, wherein the base material (11) constitutes a side plates (211) of a bucket (200) of a construction machine,

the laminated plate (220) is attached to an outside of the side plate (211), the device further comprises a bottom plate (212), at least a portion of which is connected to the side plate (211), and at least a part (K) of the portion where the side plate (211) and the bottom plate (212) are connected on insides of the side plate (211) and the bottom plate (212) is reinforced.

33.(New) The vibration damping device according to claim 2, wherein the laminated plate (910) is formed by laminating a specified number of inner plates (912) and an outer plate (911) that is disposed on an outside of the specified number of the inner plates (912), and the specified number of the inner plates (912) are tightly sealed by the outer plate (911) and a machine (901) that is an object of vibration damping.

34.(New) The vibration damping device according to claim 23, wherein the member (103) of the machine has a contact member (108) that is capable of contacting end portions of the laminated plate (110), the inner plate (111) has a contact part (111b) that protrudes from a peripheral edge of the outer plate (112) and contacts with the contact member (108), and continuous welding that covers the contact part (111b) of the inner plate (111) is performed between the peripheral edge of the outer plate (112) and the contact member (108).

35.(New) The vibration damping device according to claim 23, wherein a plurality of protruding parts (131a) that match a peripheral edge shape of the outer plate (132) are disposed on the peripheral edge of the inner plate (131), and the plurality of protruding

parts (131a) of the inner plate (131) are intermittently welded by performing continuous welding on the peripheral edge of the outer plate (132).